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10/751,565	01/05/2004	Masaaki Ucda	17339	3667
23389 759 SCHLLV SCOTT	90 12/18/200 MURPHY & PRES	EXAMINER		
400 GARDEN CI		JOHNSON III, HENRY M		
SUITE 300 GARDEN CITY,	NY 11530		ART UNIT	PAPER NUMBER
GARABEN CITT,	111111111111111111111111111111111111111	•	3739	
SHORTENED STATUTORY P	PERIOD OF RESPONSE	. MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Applica	ition No.	Applicant(s)	
Office Action Summary		565	UEDA ET AL.	
		er	Art Unit	
	Henry N	1. Johnson, III	3739	
The MAILING DATE of this comp Period for Reply	nunication appears on t	he cover sheet with the	correspondence ad	ldress
A SHORTENED STATUTORY PERIO WHICHEVER IS LONGER, FROM TH - Extensions of time may be available under the provi after SIX (6) MONTHS from the mailing date of this - If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for Any reply received by the Office later than three moderned patent term adjustment. See 37 CFR 1.704	E MAILING DATE OF sions of 37 CFR 1.136(a). In no communication. In statutory period will apply and reply will, by statute, cause the another after the mailing date of this	THIS COMMUNICATIO event, however, may a reply be to will expire SIX (6) MONTHS from application to become ABANDONI	N. imely filed in the mailing date of this co ED (35 U.S.C. § 133).	
Status				
 Responsive to communication(s This action is FINAL. Since this application is in conditional closed in accordance with the present the communication of the com	2b)⊠ This action is ion for allowance exce	non-final. pt for formal matters, pr		e merits is
Disposition of Claims				
4) ⊠ Claim(s) <u>1-34</u> is/are pending in t 4a) Of the above claim(s) 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-34</u> is/are rejected. 7) □ Claim(s) is/are objected to re	is/are withdrawn from o			
Application Papers				
9) The specification is objected to b 10) The drawing(s) filed on <u>05 Janual</u> Applicant may not request that any of Replacement drawing sheet(s) included the property of the	ry 2004 is/are: a)⊠ acobjection to the drawing(s ding the correction is requ) be held in abeyance. Se uired if the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 CF	FR 1.121(d).
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a classification. a) All b) Some * c) None of the price of the price of the price of the certified copies of the price of the certified copies of the price of the price of the price of the price of the certified copies of the price of the price of the price of the price of the certified copies of the price	f: rity documents have be rity documents have be ies of the priority docu ational Bureau (PCT R	een received. een received in Applicat ments have been receiv tule 17.2(a)).	tion No ved in this National	Stage
Attachment(s)			•	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Revie 3) Information Disclosure Statement(s) (PTO/SB. Paper No(s)/Mail Date		4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date	

Response to Arguments

Applicant's arguments filed October 26, 2006 have been fully considered but they are not persuasive. Shimmura et al. is interpreted as reading on the claims as previously cited and as cited herein. The instant application allows for rotation of the support arm around an axis, therefore the position of the ball joint is not fixed. Shimmura et al., likewise, discloses a rotational axis between the moving mechanism and the support arm allowing the ball joint to be positioned above, below or to the side of the instrument holder. Thus, Shimmura et al. is capable of assuming the same relative positions.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites the limitation "the other end" in line 10. There is insufficient antecedent basis for this limitation in the claim. Further, the other end is associated with both the support arm (line 9) and the supporting mechanism (line 11) making it indefinite.

Claim 4 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in line 4 is not clear.

Claim 7 recites the limitation "the other end" in line 35. There is insufficient antecedent basis for this limitation in the claim.

Claim 7 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in line 39 is not clear.

Claim 9 recites the limitation "the other end" in line 35. There is insufficient antecedent basis for this limitation in the claim.

Claim 9 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in line 39 is not clear.

Claim 10 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in line 4 is not clear.

Claim 13 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in line 30 is not clear.

Claim 15 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in line 30 is not clear.

Claim 16 recites the limitation "the other end" in line 9. There is insufficient antecedent basis for this limitation in the claim.

Claim 17 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in line 5 is not clear.

Claim 20 recites the limitation "the other end" in line 28. There is insufficient antecedent basis for this limitation in the claim.

Claim 20 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in line 34 is not clear.

Claim 22 recites the limitation "the other end" in line 28. There is insufficient antecedent basis for this limitation in the claim.

Claim 22 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in line 34 is not clear.

Claim 23 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in lines 4-5 is not clear.

Claim 26 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in line 24-25 is not clear.

Claim 28 recites the limitation "the other end" in line 9. There is insufficient antecedent basis for this limitation in the claim.

Claim 29 is indefinite as the term "other end" is associated with multiple arms making the structure unclear. The use of the term "provided with the shaft" in line 5 is not clear.

Claim 31 recites the limitation "the other end" in line 10. There is insufficient antecedent basis for this limitation in the claim.

Claims 1, 7, 9, 13, 15, 20, 22, 26, 27 and 30 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: the ball joint is cited as coupling the moving mechanism to the supporting mechanism, yet the supporting mechanism includes a support arm with the ball joint. The ball joint therefore couples the support arm to the medical instrument holder and is not directly coupled to the moving mechanism.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

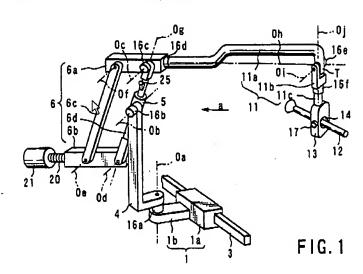
⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1-6, 8, 10-12, 14, 16-19, 21, 23-25, and 27-32 are rejected under 35

U.S.C. 102(b) as being anticipated by
U.S. Patent Application Publication US
2001/0027313 to Shimmura et al.
Shimmura et al. teach a medical
instrument holding apparatus with a
portion for holding an instrument (Fig. 1, # 14), a support arm (Fig. 1, # 11a), a base
support (basal portion, Fig. 1, #s 3 & 4), a



shaft coupled to the basal support (Fig. 1, # 4), the shaft forming part of a parallelogram moving (moving mechanism) structure (Fig. 1, # 6) with a counterweight (Fig. 1, # 21) to offset the weight of the support arm (Fig. 1, # 11a) and instrument. Multiple axes of rotation within the supporting mechanism are disclosed (Fig. 1, #s 0a – 0j). Arm 6a is clearly shorter than arm 6c of the parallelogram. A ball joint is disclosed that connects the moving portion to an instrument support portion (Fig. 7, #16h). The support shaft has an axis of rotation (0h) inherently allowing the ball joint to be above, below or on a horizontal plane with the instrument holding means. As the angle of inclination within the ball joint changes, so will the position of the center of gravity, said center of gravity also being dependent on the size and weight distribution of the instrument. Since the center of gravity of the instrument and support depends on the instrument and the orientation, the ball joint is clearly capable of being oriented in any relation to the center of gravity. An operator may grasp any portion of the support and instrument elements. Electromagnetic locks as means for braking their respective movable sections are disclosed (Fig. 1, #s 16a-16f), with an activating switch on the holding portion (paragraph 0059). A braking means is also disclosed for the ball joint (paragraph 0092). The instrument holding

portion is interpreted is capable of being held by an operator and is coupled to the support arm by rotatable joints (Fig. 1, #s 16e & 16f). The upper portion of the parallelogram is shorter than the lower portion with the counterweight and either of the side arms. The counterweight is adjustable via screw threads (Fig. 1, # 20).

The apparatus of Shimmura et al. implicitly has centers of gravity, centers of inclination and forces exerted within the device based on the weights of the instrument and counterweights. Relative positions of apparatus components will vary as the instrument is positioned and can assume limitless configurations. The apparatus is therefore interpreted as capable of the position(s) cited.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 33 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application Publication US 2001/0027313 to Shimmura et al. Shimmura et al. are

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discussed above and disclose an endoscope as the medical instrument, but do not specifically teach an optical or imaging system. A skilled artesian knows that endoscopes typically include multiple lumens for instruments and observation during an endoscopic procedure. It would have been obvious to one skilled in the art to include optics and imaging in the instrument as it is common and well known to do so.

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Allowable Subject Matter

Claims 7, 9, 13, 15, 20, 22 and 26 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry M. Johnson, III whose telephone number is (571) 272-4768. The examiner can normally be reached on Monday through Friday from 6:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C. Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Henry M. Johnson, III Primary Examiner

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